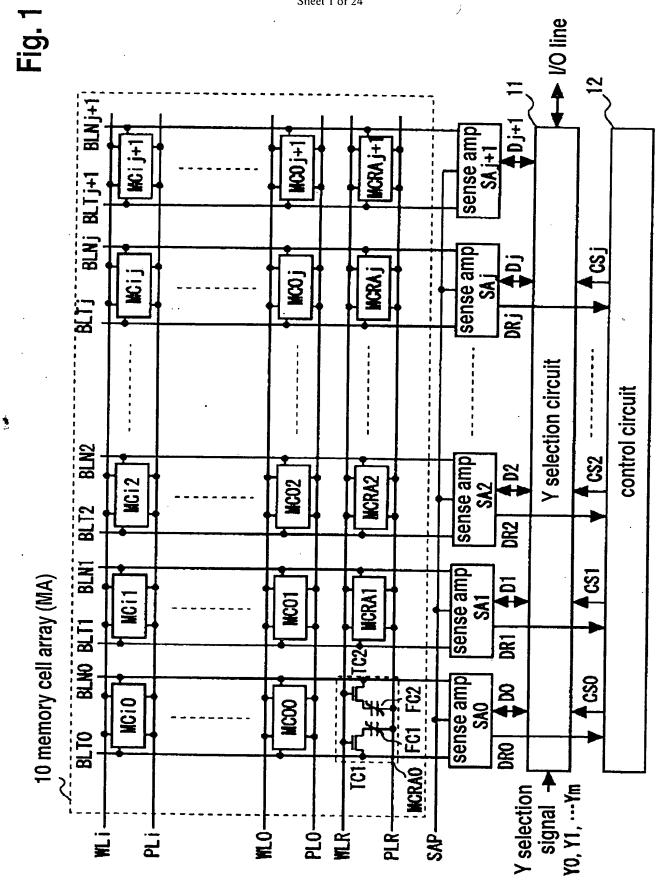
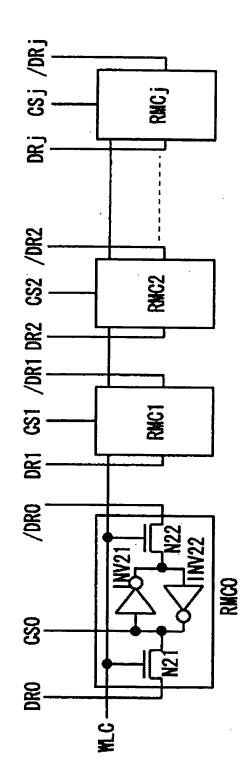
Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 1 of 24

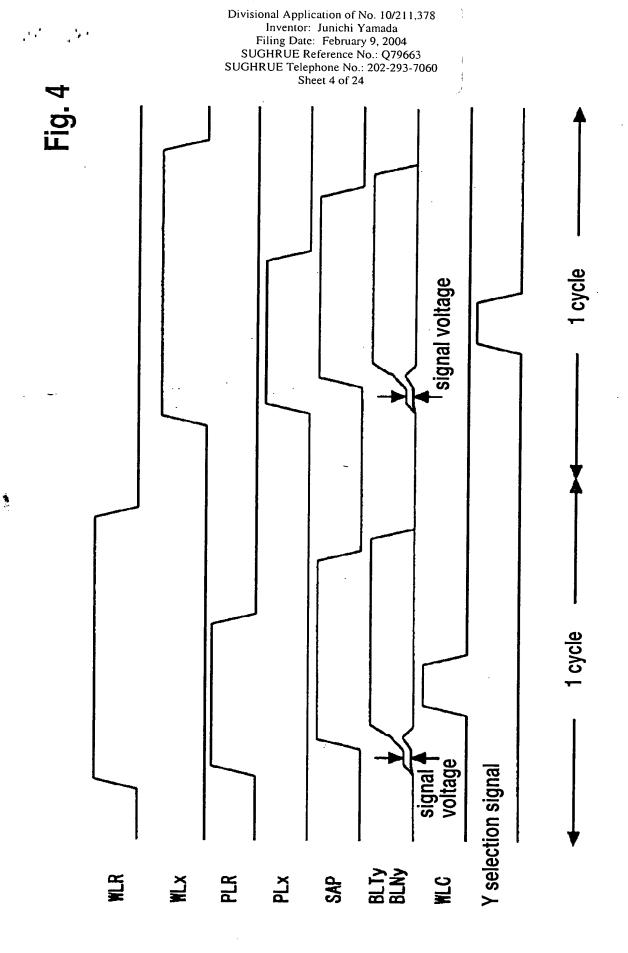


*

Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 3 of 24

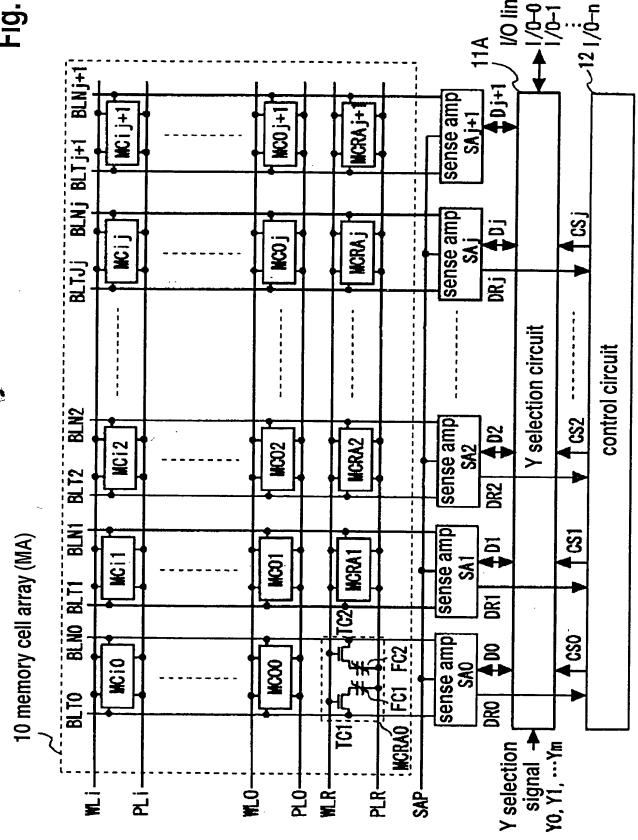
-ig. 3





Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060

SUGHRUE Reference No.: Q79663
SUGHRUE Telephone No.: 202-293-7060
Sheet 5 of 24



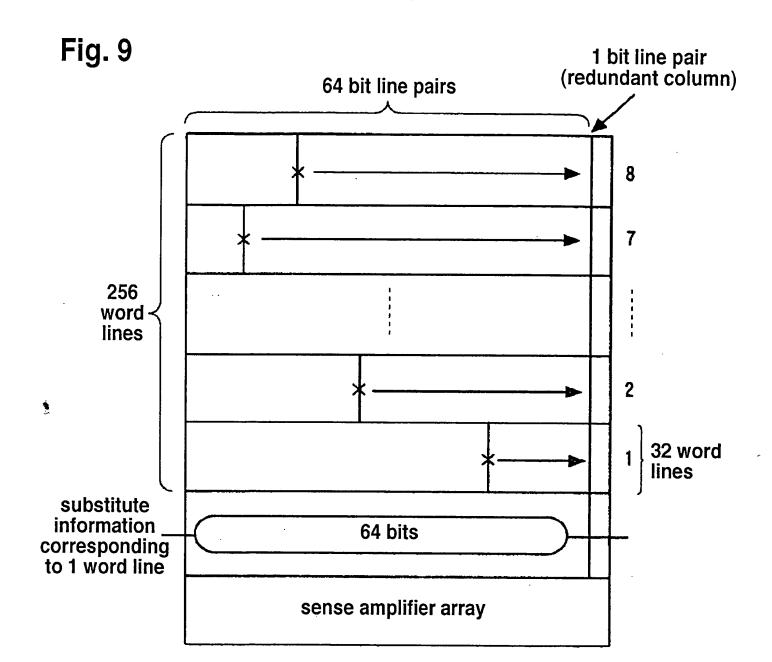
SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 7 of 24 Fig. 7 sense amp SAj+1 BLN63 BLT64 5863 sense amp SA j **D63** BLT63 Y selection circuit control circuit **8.**72 sense amp SA2 **SS2** 402 MC2552 **MC02** 民2 10 memory cell array (MA) sense amp SA1 S 5 MC2551 8 路江 DR1 BL8 sense amp SA0 88 F22 82 器 **I**CRAO Y selection signal → YO, YI, ...Ym 건 M.R. PL255

Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004

Fig. 8

*

Divisional Application of No. 10/211,378
Inventor: Junichi Yamada
Filing Date: February 9, 2004
SUGHRUE Reference No.: Q79663
SUGHRUE Telephone No.: 202-293-7060
Sheet 9 of 24



Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 10 of 24 signal voltage decoding time signal voltage Y selection signal XA0~XA7 BLT BLN

SAP

٦

#LR

¥

묖

Divisional Application of No. 10/211,378 Inventor: Junichi Yamada

Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 11 of 24

Fig. 11 🛨 D10 -- DR1 j| 🛨 D1 j 🛨 D1 j+1 Y selection | circuit **subarray1 CS10** sense amp SA j+1 Y selection circuit BLN. CSO j sense amp SAj

8

V selection singal 0

sense amp SA0

PLR

828

subarray0

表:0

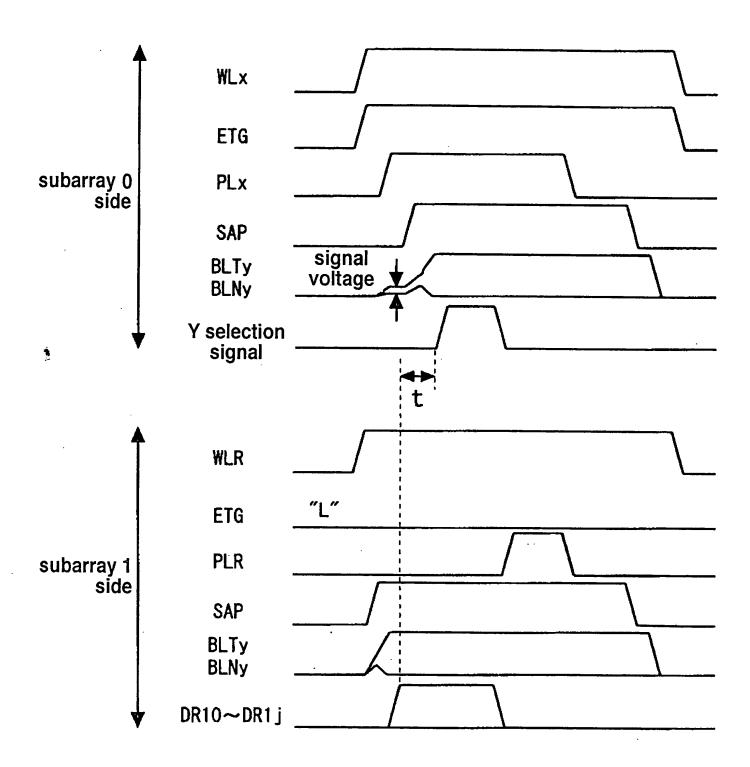
Cba00

HH

2

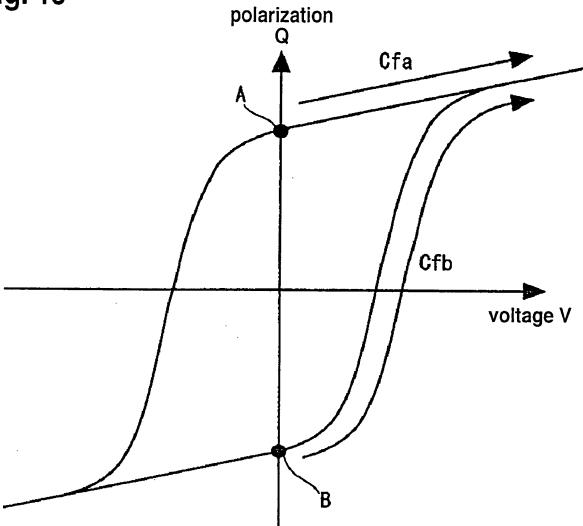
Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 12 of 24

Fig. 12



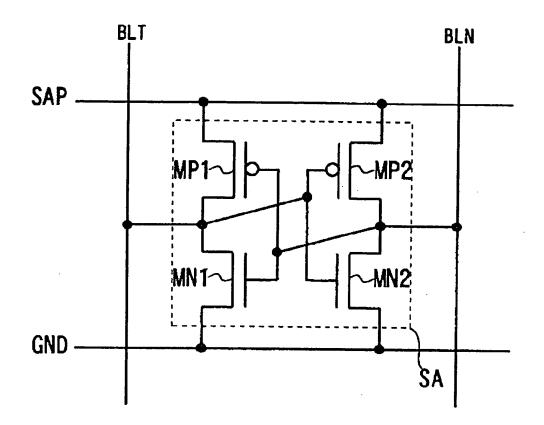
Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 13 of 24





Divisional Application of No. 10/211,378
Inventor: Junichi Yamada
Filing Date: February 9, 2004
SUGHRUE Reference No.: Q79663
SUGHRUE Telephone No.: 202-293-7060
Sheet 14 of 24

Fig. 14

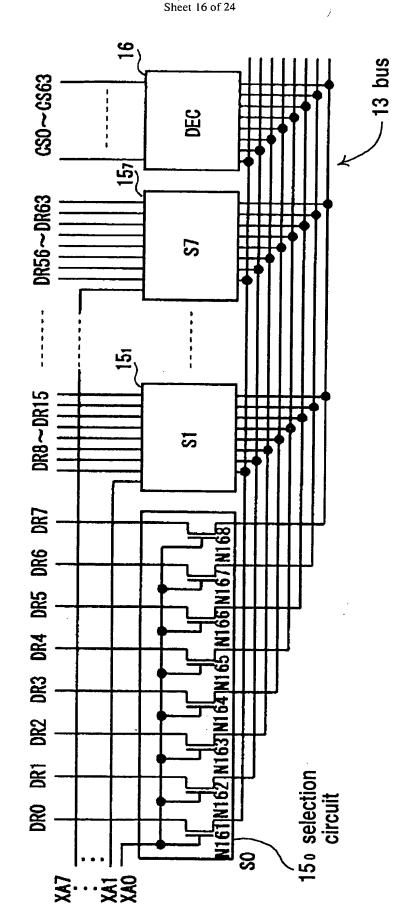


Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Fig. 15 | |So line Sheet 15 of 24 **\$**010-- 0R163**| \$**0163**\$**0164 SS163 Y selection circuit control circuit subarray1 -DR10 BLN64 Cba164 Cbb164 k D064 sense amp SA64 IC25564 NCRA64 **5**064 Cba064 Cbb064 • Y selection circuit **BLN63 CS063** control circuit ර්ච් sense amp SA63 28a **#C25563 10003 BLT63** 88 BL% දු Cbb00 TG107 Cba10 울 sense amp SA0 MC2550 Cpa00 BL TO subarray0 Y selection signal 0 P. 67 E. 160 E. 모

Divisional Application of No. 10/211,378 Inventor: Junichi Yamada

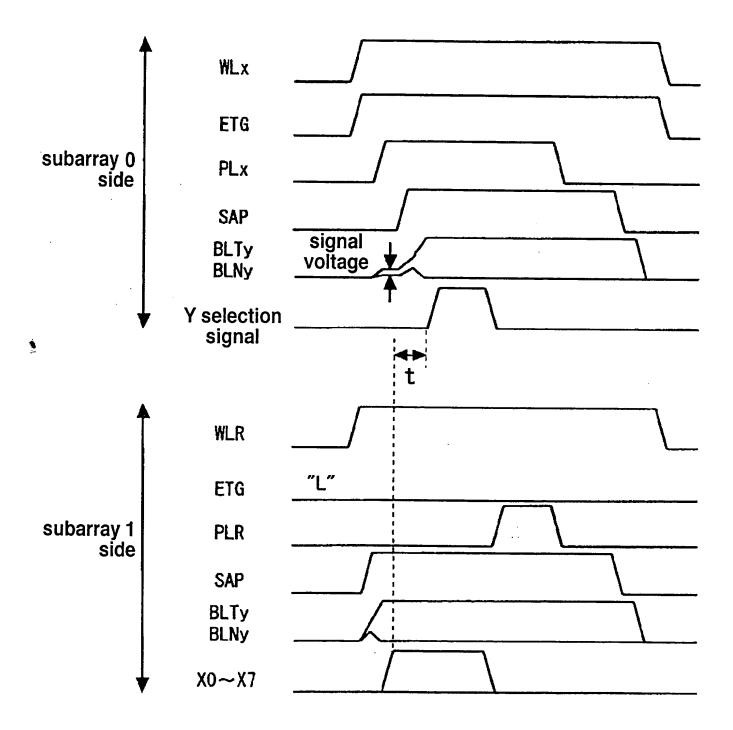
Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060





Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 17 of 24

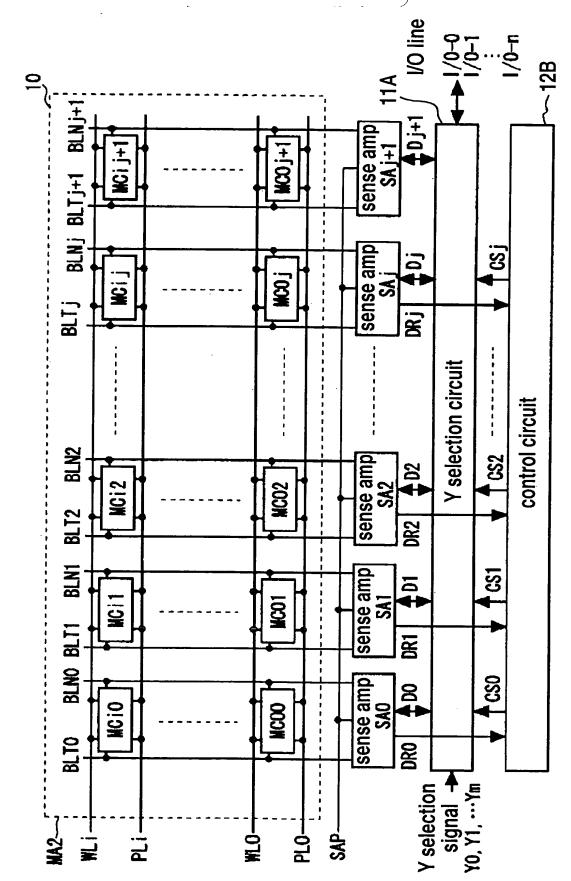
Fig. 17



Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 18 of 24

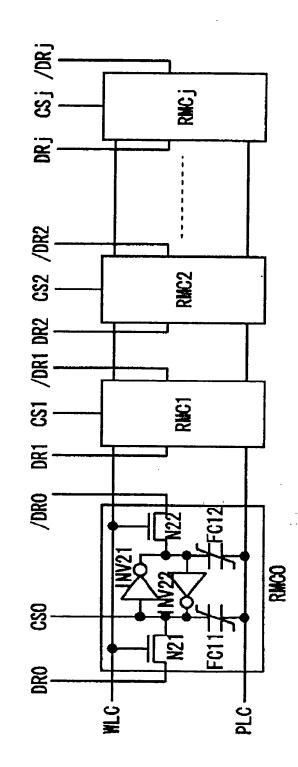
Fig. 18

*

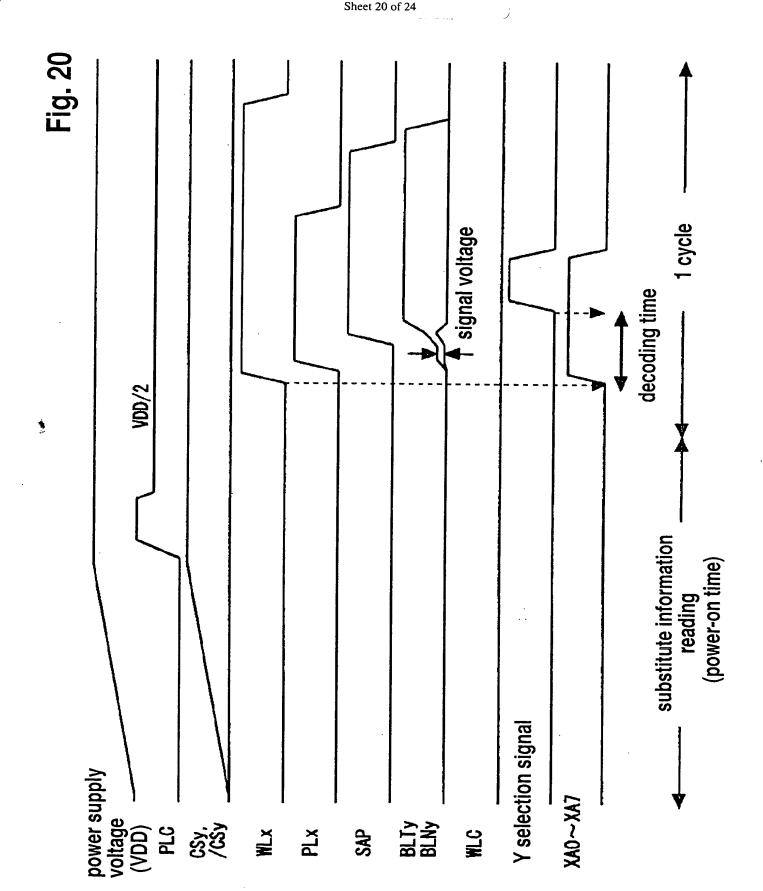


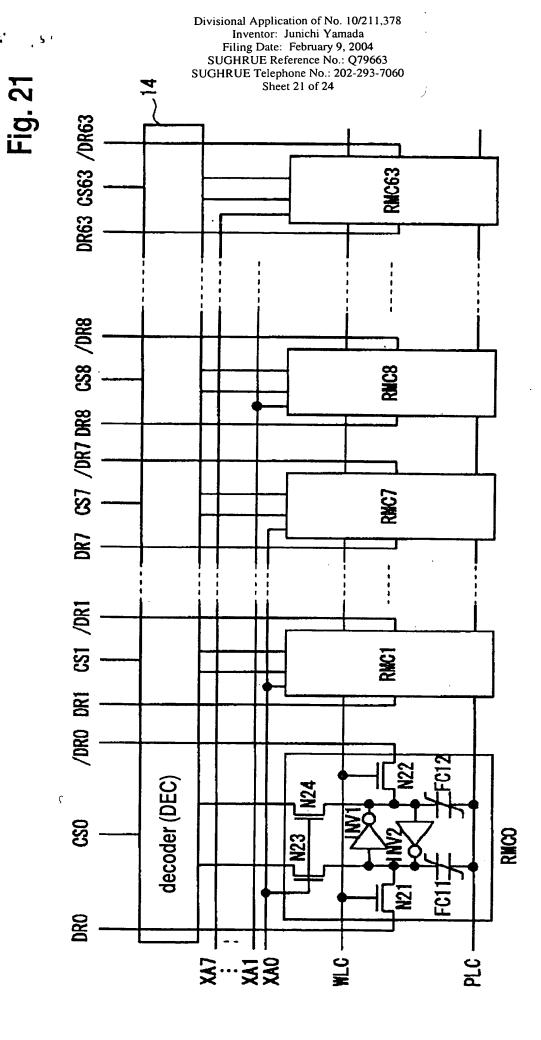
Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 19 of 24

Fig. 19

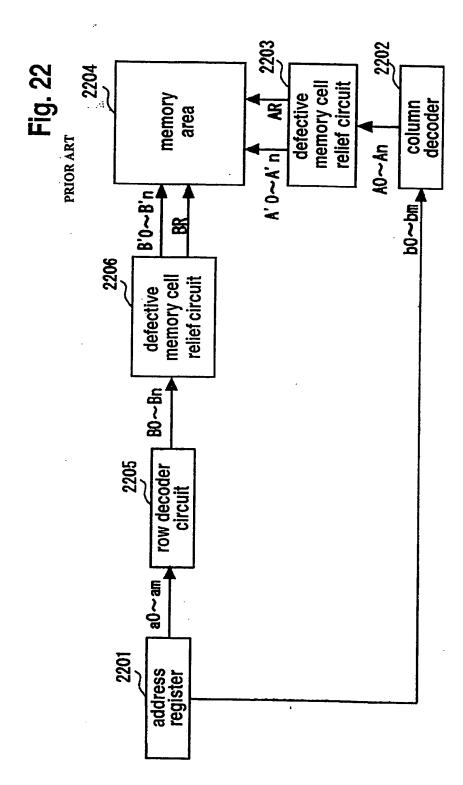


Divisional Application of No. 10/211,378
Inventor: Junichi Yamada
Filing Date: February 9, 2004
SUGHRUE Reference No.: Q79663
SUGHRUE Telephone No.: 202-293-7060





Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060 Sheet 22 of 24



Divisional Application of No. 10/211,378 Inventor: Junichi Yamada Filing Date: February 9, 2004 SUGHRUE Reference No.: Q79663 SUGHRUE Telephone No.: 202-293-7060

Sheet 23 of 24

PRIOR ART

